ARRAY-BASED METHODS FOR SYNTHESIZING
NUCLEIC ACID MIXTURES

5   <u>ABSTRACT OF THE DISCLOSURE</u>

Methods for generating mixtures of nucleic acids, e.g., oligonucleotide primers, are provided. In the subject methods, an array is employed as template to generate mixtures of nucleic acids via a template driven primer extension reaction. In preferred embodiments, each probe on the array employed in the subject methods

10 comprises a constant domain and a variable domain, where the constant domain is further characterized by having at least a recognition domain. Also provided are the arrays employed in the subject methods and kits for practicing the subject methods. The subject methods find use in a variety of applications, including the generation of target nucleic acids from an mRNA sample for use in hybridization assays, e.g.,

15 differential gene expression analyses.